

POCKET PROGRAMS

VZ200

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YAHTZEE

This is a VZ200 version for the dice game Yahtzee, designed for an unlimited number of players.

Each player throws his or her dice up to three times each turn. After the first and second throws you can hold any dice you wish to keep, re-throwing the balance. After the third throw you must enter your score in the table provided.

Once a score has been recorded for a particular category, that category can't be used again. The game ends after 13 rounds.

Because of the limitations of the printer used to produce the listing it's wise to include the graphics [shift Js] in lines 2020 and 2050. The sections underlined should be inserted in inverse text.

The program occupies 5.9 Kbytes of memory.

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Main Variable Used

NS()	Player's name
S1\$()	Titles of category
S2\$()	Description of category
SC\$()	Update score for each category
DF()	Spots on dice
SC()	Score
ND()	Random number for dice
NP	Number of players
IP	User update of scoresheet
TURN	Turn number

Main Routines

0-40	Title graphics
100	Initialises screen background
	Clears memory for variables
130	Input players' names
140	Initialises variables
160-170	Input players names
165	Limits player's name to 11 characters
180-190	Set number of player turns per number of players
210	Random number generator for dice throw
290-320	Print score table
330-420	User update of score
470-570	Updates total score
600-650	Displays final score and placings
1000-1120	Data statements for score table
1130-1160	Data statements for spots on dice
2020-2050	Displays dice
9000-20040	User update of score subroutine
21000-22140	Instructions

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0 *****
1 * VZ-200 Y A H T Z E E *
2 * IAN THOMPSON - COLLAROY *
3 *****
4 CLS: SOUND 25,6: COLOR,0
5 FOR X=1 TO 32: POKE 28671+X,204: POKE 29131+
X,195
6 POKE 28672,174: POKE 28703,173: POKE 29152,1
71: POKE 29183,167
7 NEXT X
8 FOR N=28704 TO 29120 STEP 32
9 POKE N,202
10 NEXT N
11 FOR O=28735 TO 29151 STEP 32
12 POKE O,197
13 NEXT O
22 PRINT@106," YAHTZEE "
24 A$=" IAN A. THOMPSON "
26 B$="COLLAROY PLATEAU"
28 FOR N=1 TO LEN(A$)
30 PRINT@231,RIGHT$(A$,N);
32 PRINT@263,RIGHT$(B$,N);
34 NEXT
35 FOR I=1 TO 500:NEXT I
36 PRINT@454,"INSTRUCTIONS (Y/N)?"
38 IF INKEY$(">") THEN 38
40 A$=INKEY$
42 IF A$="N" THEN SOUND30,1: GOTO100
44 IF A$(">")="Y" THEN 40
45 SOUND30,1
46 GOSUB 21000: 'INSTRUCTIONS
100 POKE 30744,0: COLOR 5,0: CLEAR 1000
120 R=RND(0)
130 CLS: PRINT@128,"NO. OF PLAYERS";: INPUT NP
135 SOUND 31,1
140 DIM SC$(13,NP),S1$(13),S2$(13),N$(NP),DF
(6,6),SC(NP),YF(NP)
145 GOSUB 1000
150 FOR I=1 TO NP
160 CLS: PRINT@128,"PLAYER N";: INPUT "S NAM
E";N$(I)
162 SOUND 31,1
165 IF LEN(N$(I))>11 THEN SOUND 20,1:10,1:80
TO 160
170 NEXT
180 FOR TURN = 1 TO 13
190 FOR PL=1 TO NP
210 FOR R=1 TO 5:ND(R)=RND(6):NEXT
220 GOSUB 2000
230 GOSUB 3000
240 PRINT@416,"REMEMBER THESE, THEN"
250 PRINT"HIT ANY KEY TO CONTINUE":A$=INKEY$
260 A$=INKEY$:IF A$="" THEN 260
270 FOR I=1 TO 6:N(I)=0:NEXT
280 FOR I=1 TO 5:N(ND(I))=N(ND(I))+1:NEXT
290 CLS:PRINT"CHOOSE A CATEGORY,";N$(PL)
300 FOR I=1 TO 13:PRINTUSING"##" ";I;
310 PRINTS1$(I);S2$(I);SC$(I,PL)
320 NEXT
330 PRINT:INPUT"WHICH [1-13]";IP
340 IF IP=1 OR IP>13 THEN 290
345 IF IP=12 THEN 12000
350 IF SC$(IP,PL)<>"" THEN 15000
360 IF IP=7 THEN SC$(IP,PL)=STR$(IP*N(IP))
370 IF IP=7 OR IP=8 THEN 7000
380 IF IP=9 THEN 9000
390 IF IP=10 THEN 10000
400 IF IP=11 THEN 11000
420 IF IP=13 THEN 13000
    
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430 NEXT PL:NEXT TURN
440 FOR PL=1 TO NF:FOR I=1 TO 12
460 NEXT
470 FOR I=1 TO 6
480 SC(PL)=SC(PL)+VAL(SC$(I,PL)):NEXT
490 IF SC(PL)>62 THEN SC(PL)=SC(PL)+35
500 FOR I=7 TO 12
510 SC(PL)=SC(PL)+VAL(SC$(I,PL))
520 NEXT:NEXT
530 FOR I=1 TO NF-1
540 HI=0:FOR J=1 TO NF
550 IF SC(J) HI THEN HI=SC(J):P=J
560 NEXT
570 D=SC(I):SC(I)=SC(P):SC(P)=D
580 DI=NF(I):NI=NF(P):NF(P)=DI
595 NEXT
600 SOUND 20,1: SOUND 10,1: SOUND 20,1
610 CLS:PRINT"AND THE PLACINGS ARE:"
620 PRINT:PRINT:FOR I=1 TO NF
630 PRINTUSING"###":I:
640 PRINT"1":NF(I):TAB(25):SC(I)
650 NEXT
660 PRINT#480,"ANOTHER GAME (Y/N)?"
670 GOSUB 20000
680 IF YN#="Y" THEN RUN
690 CLS:PRINT#480,"THE END OF THE GAME"
700 END
710 DATA STATEMENTS
720 FOR I=1 TO 12
730 READ SI$(I),SC$(I):NEXT
740 DATA "ACES",, (SUM OF 1'S) -"," "TWOS",,
, (SUM OF 2'S) -"
750 DATA "THREES",, (SUM OF 3'S) -"," "FOURS",,
, (SUM OF 4'S) -"
760 DATA "FIVES",, (SUM OF 5'S) -"," "SIXES",,
, (SUM OF 6'S) -"
770 DATA "3 OF A KIND",, (SUM) -"," "4 OF A
KIND",, (SUM) -"
780 DATA "FULL HOUSE",, (25) -"," "SM. STR
AIGHT",, (20) -"
790 DATA "LGE. STRAIGHT",, (40) -"," "YAHTZEE
",, (50) -"
800 DATA "CHANCE",, (SUM) -"
810 FOR I=1 TO 6:FOR J=1 TO 1
820 READ DI(I,J):NEXT:NEXT
830 DATA 66,33,99,1,66,131,33,75,97,99
840 DATA 1,3,66,129,131,1,3,65,67,129,131
850 RETURN
860 CLS:PRINT NF(PL):"S ROLL"
870 FOR R=96 TO 224 STEP 32:FOR S=2 TO 26 S
TEP 6
880 COLOR 5
890 PRINT@R+S," : THREE SHIFT J'S
900 NEXT:NEXT
910 FOR D=1 TO 5:FOR N=1 TO ND(D)
920 COLOR 3
930 PRINT@91+D*6+DE(ND(D),N)," : ONE SHIFT
J
940 NEXT:NEXT
950 RETURN
960 FOR F=1 TO 2:F=1
970 FOR J=1 TO 5
980 F=252+J*6:RR(J)=0
990 PRINT@F," "
1000 PRINT:PRINT
1010 PRINT"REROLL THIS ONE (Y/N)?"
1020 PRINT"IS FOR SCOREBOARD)":PRINT"IN FOR
MISTAKE":YN#-INKEY#
1030 YN#-INKEY#
1040 IF YN#<"Y" AND YN#<"N" AND YN#<"S" A
ND YN#<"M" THEN 3060
1050 IF YN#="Y" THEN SOUND 20,1
1060 IF YN#="N" THEN SOUND 10,1
1070 IF YN#="S" THEN SOUND 15,1
1080 IF YN#="M" THEN SOUND 20,2:10,1
1090 IF YN#="S" THEN 3130
1100 CLS:PRINT TAB(5):NF(PL):"S SCORES"
1110 FOR I=1 TO 12:PRINTUSING"###":I:
1120 PRINT SI$(I):SC$(I):SC$(I,PL)
1130 NEXT:PRINT"HIT ANY KEY TO RETURN":AT=1
NKEY#
1140 AT=INKEY#:IF AT="" THEN 3120 ELSE GOSUB
20000:GOTO 3020
1150 PRINT@F," "
1160 IF YN#="M" THEN 3010
1170 IF YN#="Y" THEN RR(J)=1
1180 NEXT
1190 FOR I=1 TO 5:IF RR(I)=1 THEN ND(I)=RND(
6):F=F+1
1200 NEXT:IF F THEN K=2
1210 GOSUB 20000
1220 NEXT
1230 RETURN
1240 FOR I=1 TO 6:IF N(I)>IF-5 THEN 7030
1250 NEXT
1260 GOTO 16000
1270 SC=0
1280 FOR I=1 TO 5:SC=SC+ND(I):NEXT
1290 SC$(IP,PL)=STR$(SC)
1300 GOTO 430
1310 FOR I=1 TO 6
1320 IF N(I)>2 THEN N(I)=N(I)-3:GOTO 9040
1330 NEXT
1340 GOTO 16000
1350 FOR I=1 TO 6
1360 IF N(I)>1 THEN 9080
1370 NEXT
1380 GOTO 16000
1390 SC$(9,PL)=" 25"
1400 GOTO 430
1410 GOTO 430
1420 FOR I=1 TO 3:F=1:FOR J=1 TO 1+3
1430 IF N(J)=0 THEN F=0
1440 NEXT
1450 IF F THEN 10060
1460 NEXT
1470 GOTO 16000
1480 SC$(10,PL)=" 30"
1490 GOTO 430
1500 FOR I=1 TO 2:F=1:FOR J=1 TO 1+4
1510 IF N(J)=0 THEN F=0
1520 NEXT
1530 IF F THEN 11060
1540 NEXT
1550 GOTO 16000
1560 SC$(11,PL)=" 40"
1570 GOTO 430
1580 FOR I=1 TO 6
1590 IF N(I)=5 THEN 12040
1600 NEXT
1610 GOTO 16000
1620 SC$(12,PL)=" 50"
1630 IF YF(PL) THEN SC$(12,PL)=STR$(VAL(SC$(
12,PL))+100)
1640 YF(PL)=1
1650 GOTO 430
1660 SC=0:FOR I=1 TO 5
1670 SC=SC+ND(I):NEXT
1680 SC$(13,PL)=STR$(SC)
1690 GOTO 430

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15000 SOUND 15,1:CLS
15010 PRINT@128,"YOU'VE ALREADY DONE"
15020 PRINT"THE ";S1$(IP); " ";N$(PL)
15030 FOR I=1 TO 2000:NEXT
15040 GOTO 290
16000 SOUND 15,1:CLS
16010 PRINT@128,"YOU'RE NOT ELIGIBLE FOR"
16020 PRINT"A ";S1$(IP); " ";N$(PL)
16025 IF IP=12 AND VF(PL) THEN SOUND 0,8:GOT
O 290
16030 PRINT:PRINT:PRINT"DO YOU WANT IT ANYWA
Y (Y/N)?";
16040 GOSUB 20000
16050 IF YN$="N" THEN 290
16060 SC$(IP,PL)=" 0"
16070 IF IP=12 THEN VF(PL)=1
16080 GOTO 430
20000 YN$=INKEY$
20010 YN$=INKEY$:IF YN$="" THEN 20010
20020 IF YN$<>"Y" AND YN$<."N" THEN 20000
20030 IF YN$="Y" THEN SOUND 20,1 ELSE SOUND
10,1
20040 RETURN
21000 CLS:PRINT"INSTRUCTIONS"
21010 PRINT:PRINT"IN THIS DICE GAME EACH PLA
YER"
21020 PRINT"CAN THROW UP TO THREE TIMES EACH
"
21030 PRINT"TURN. AFTER THE FIRST THROW, HE"
21040 PRINT"CAN SET ASIDE ANY DICE HE WISHES
"
21050 PRINT"TO KEEP,AND RETHROW THE BALANCE.
"
21060 PRINT"HE CAN DO THE SAME AFTER THE"
21070 PRINT"SECOND AND THIRD THROWS. HE CAN,
"
21080 PRINT"OF COURSE, STOP BEFORE THE THIRD
"
21090 PRINT"THROW IF HE WISHES."
21100 PRINT"ONCE THE PLAYER HAS DECIDED TO"
21110 PRINT"STOP, HE MUST DECIDE INTO WHICH"
21120 PRINT"CATEGORY TO ENTER HIS SCORE."
21130 GOSUB 22100
21140 DIM S1$(13),S2$(13)
21150 FOR I=1 TO 13
21152 READ S1$(I),S2$(I):NEXT
21154 CLS
21156 PRINT
21160 FOR I=1 TO 13
21170 PRINT S1$(I);S2$(I):NEXT
21172 PRINT@300,"(SUM OF HOUSE) --"
21174 PRINT@334,"[1,2,3,4,5,] --"
21176 PRINT@366,"[2,3,4,5,6,] --"
21178 PRINT@394,"[FIVE OF A KIND] --"
21180 PRINT@427,"[ANY FIVE DICE] --"
21200 GOSUB 22100
21210 CLS:PRINT"THE GAME ENDS AFTER 12 ROUND
S."
21220 PRINT"ONCE A SCORE HAS BEEN RECORDED"
21230 PRINT"FOR A PARTICULAR CATEGORY, THAT"
21240 PRINT"CATEGORY CAN'T BE USED AGAIN."
21250 GOSUB 22100
21260 RETURN
22100 PRINT@485,"PRESS C TO CONTINUE";
22110 IF INKEY$="C" THEN 22100
22120 IF INKEY$="" THEN 22100
22130 IF INKEY$="C" THEN 22130
22140 SOUND 30,1:RETURN

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